

# checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 1

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found.      CIF dictionary      Interpreting this report

## Datablock: 1

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Bond precision:    C-C = 0.0023 Å

Wavelength=0.71073

Cell:                a=9.9610(12)                b=11.2201(14)                c=12.7264(16)  
                      alpha=70.640(2)                beta=86.203(2)                gamma=74.814(2)  
Temperature:        296 K

	Calculated	Reported
Volume	1294.7(3)	1294.7(3)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C34 H27 N O2	?
Sum formula	C34 H27 N O2	C34 H27 N O2
Mr	481.57	481.56
Dx,g cm-3	1.235	1.235
Z	2	2
Mu (mm-1)	0.076	0.076
F000	508.0	508.0
F000'	508.21	
h,k,lmax	11,13,15	11,13,15
Nref	4554	4524
Tmin,Tmax	0.977,0.983	
Tmin'	0.977	

Correction method= Not given

Data completeness= 0.993

Theta(max)= 24.999

R(reflections)= 0.0395( 3568)

wR2(reflections)= 0.1214( 4524)

S = 0.953

Npar= 334

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The following ALERTS were generated. Each ALERT has the format

**test-name\_ALERT\_alert-type\_alert-level.**

Click on the hyperlinks for more details of the test.

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### ● Alert level C

PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C8	--C32	.	5.5 s.u.
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance	.....			2.268 Check
PLAT910_ALERT_3_C	Missing # of FCF Reflection(s) Below Theta(Min).				7 Note
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L=	0.595			24 Report

### ● Alert level G

PLAT154_ALERT_1_G	The s.u.'s on the Cell Angles are Equal ..(Note)				0.002 Degree
PLAT230_ALERT_2_G	Hirshfeld Test Diff for	C22	--C23	.	6.2 s.u.
PLAT343_ALERT_2_G	Unusual sp3	Angle Range in Main Residue for			C7 Check
PLAT371_ALERT_2_G	Long	C(sp2)-C(sp1) Bond	C22	- C23	1.44 Ang.
PLAT371_ALERT_2_G	Long	C(sp2)-C(sp1) Bond	C24	- C25	1.44 Ang.
PLAT793_ALERT_4_G	Model has Chirality at	C7		(Centro SPGR)	S Verify
PLAT793_ALERT_4_G	Model has Chirality at	C8		(Centro SPGR)	R Verify
PLAT793_ALERT_4_G	Model has Chirality at	C9		(Centro SPGR)	R Verify
PLAT793_ALERT_4_G	Model has Chirality at	C10		(Centro SPGR)	R Verify
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary	.			Please Do !
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still				59% Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...				2 Note
PLAT961_ALERT_5_G	Dataset Contains no Negative Intensities .....				Please Check
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.				3 Info
PLAT992_ALERT_5_G	Repd & Actual _reflns_number_gt Values Differ by				8 Check

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0 **ALERT level A** = Most likely a serious problem - resolve or explain  
0 **ALERT level B** = A potentially serious problem, consider carefully  
4 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
15 **ALERT level G** = General information/check it is not something unexpected

2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
7 ALERT type 2 Indicator that the structure model may be wrong or deficient  
4 ALERT type 3 Indicator that the structure quality may be low  
4 ALERT type 4 Improvement, methodology, query or suggestion  
2 ALERT type 5 Informative message, check

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It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special\_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

### **Publication of your CIF in IUCr journals**

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E* or *IUCrData*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

### **Publication of your CIF in other journals**

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

